



# Silver 100T

User Manual v 3.0.18

Please read carefully before using this product.

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# 1. Package Contents

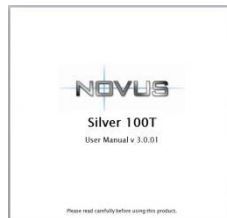
Please confirm below package list in the box \*



Silver 100T Camera



Power Cable



User Manual



Wire Clip x 4



Cradle &  
Double Side Tape

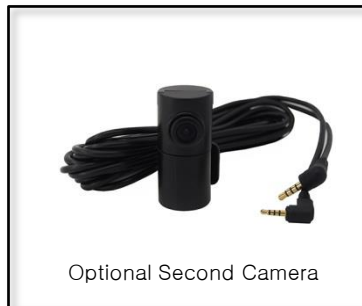


SD Card

(Contains PC Player, User Manual,  
64Gb formatting App )



Key x 1



Optional Second Camera

\* Product specification and package may change for product enhancement without any notification in advance.

## 2. Quick Start Guide

**WARNING!** When installing the camera and PC Player for the first time, the following steps **MUST** be performed with the 4GB SD card supplied with your Novus product. If installing with a larger card, SD card must be formatted before use (see page 12) Ensure the camera has completely turned off during all movements of the SD Card.

### Step 1 – Installing the Camera

**2.1** Unlock the camera with the provided key, slide the SD Cover upwards and Insert the 4GB SD card into slot on side of the camera, Slide the cover back into place and lock the camera with the provided key..

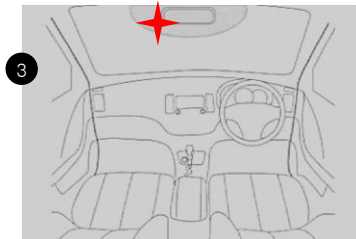
**2.2** Remove one of the plastic covers from the sticky pad and firmly place it on the flat side of the mounting bracket.

**2.3** Slide the camera into the bracket until it securely clicks into place.

**2.4** Clean the window surface area behind the rear view mirror, left hand side on the passengers side.

Do not position where the camera obstructs the drivers view of the road or within the wiper area or any other location that may infringe MOT regulations.

Continued...



# 2. Quick Start Guide – Setting Up the Camera

Continued...

- 2.5 Remove the second plastic cover from the sticky pad.
- 2.6 Carefully position and firmly place the camera on the window.
- 2.7 Insert power adaptor into Power port and insert cigarette adaptor into the cigarette socket.
- 2.8 Angle the lens to allow clear view of the road ahead
- 2.9 Remove grommet from the hinge area and tighten the screw to lock camera angle in place
- 2.10 Ensure the plastic covers are removed from the lens.
- 2.11 Organise the cables using the cable clips provided.

4



5



6



- 2.12 If Fitting the Optional rear camera (SECCAM) locate the camera mount on the rear screen then rotate the camera body until the lens is correctly angled for rear view
- 2.13 Plug the 2.5mm jack into the second camera and run the cabling along the roofline to the windscreen
- 2.14 Plug the 3.5mm Jack into the Camera input port on the upper side of the Silver 100T
- 2.15 Organise the cables using the cable clips provided.



## 2. Quick Start Guide – Setting Up GPS

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### Step 2 – Setting Up GPS Connection

**Important:** For the initial GPS lock on, the camera must be powered for approx 20 minutes. The vehicle must be in an open clear area. Not inside a garage or an area where GPS connection will be affected. A flashing blue light indicates camera is recording without GPS data. Constant blue light indicates the camera the is recording with GPS data. (See page 37 for Buzzer/LED Alert Warnings)

**Note:** *GPS is sometimes unable to connect to a satellite in vehicles fitted with fully heated windscreens or metal trims around the front window.*

- 2.16 Insert power adaptor into the camera power port and insert cigar adaptor into the car cigar socket.
- 2.17 Turn the vehicle engine on.
- 2.18 Leave the camera powered on until blue light is on constantly to indicate GPS has locked on..
- 2.19 Once the camera has locked onto GPS, turn the vehicle engine off and safely remove the SD card once the camera has completely shut down.

**Important:** After setting up the camera and GPS for the first time, install the PC Player onto a PC and set Date and Time through the Settings button on the software. Follow the next steps to complete installation.

## 2. Quick Start Guide – Installing the PC Player

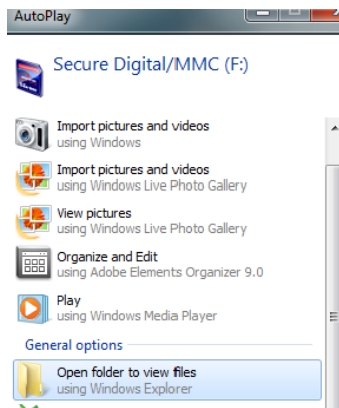
### Step 3 – Installing the Novus PC Player

**2.20** Safely remove the 4GB SD card from the camera and insert the card into the SD card slot in a PC or laptop.

**2.21** If **AutoPlay** box opens, double click on Open Folder To View Files.

If not, left click **Start – Computer** then double click on the SD card drive.

**2.22** Double click on player setup (or right click and select “Run as administrator” to ensure constant permissions and full access):

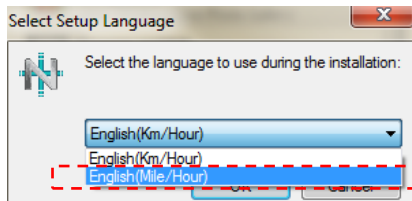


#### NOVUS\_HD\_SCE\_setup1.8

**2.23** Left click Run.

**2.24** Ensure the Language is set to – **English(Mile/Hour)** by left clicking on the small arrow on the right.

Continued...





## 2. Quick Start Guide – Installing the PC Player

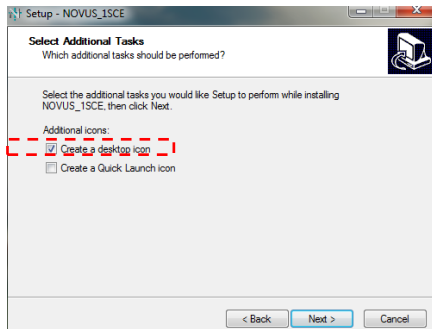
Continued...

2.25 Left click Next on the Wizard Setup.

2.26 Left click Next again.

2.27 Left click on box next to the **Create a Desktop Icon** if not already ticked, then left click Next.

2.28 Left click Install then Finish.



The PC Player will automatically pop up. If not, close the Wizard Setup window by left click on the X button in top right hand corner and any other windows still open.

### Password

2.29 During standard installation and viewing use, the password box should be left blank. If you wish to change any settings on the software or camera, or if you wish to produce reports, then the software must be opened in administrator mode (right click on shortcut and select “Run as administrator”) the password default in administrator mode is 0000.

## 2. Quick Start Guide – Set Time and Date

### Step 4 – Set Time and Date on the PC Player

2.30 Left click on the **Settings** button, bottom right hand corner of player.

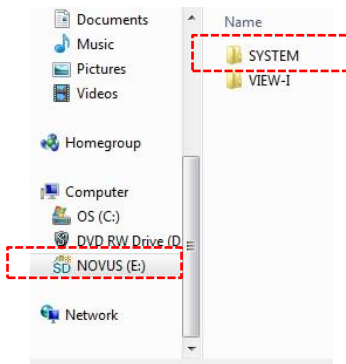


2.31 The Open box will appear. Double click on the SD card drive.

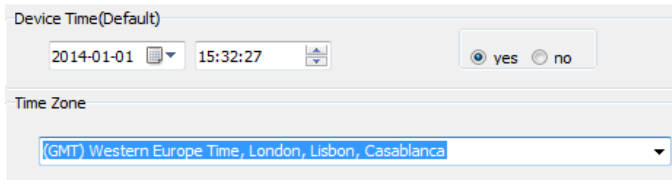
2.32 Double click on **System folder**.

2.33 Double click on user\_setup.cfg and the, setting box will appear.

2.34 In the Device Time section, click Yes to edit the time and date.



2.35 Set Time Zone to: (GMT) Western Europe Time, London, Lisbon..



Continued..

## 2. Quick Start Guide – Set Time and Date

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Continued..

- 2.36 To save the changes, left click Apply and repeat step.2.31 – 2.33 then click Save
- 2.37 Left click the red cross in top right hand corner of player to close the Player.
- 2.38 Safely remove the SD card from the SD card slot in the PC and insert the card into the camera.
- 2.39 Power the camera for at least 3 minutes to allow changes to be copied to the camera.
- 2.40 Insert the main SD card into the camera. Ensure it has been formatted to FAT32 before use (see page 12 for more information).
- 2.41 Check and position the lens correctly.

### Quick Plug and Play Installation complete.

**Important:** Any changes made on the Settings in the software must be saved in the camera by following steps 2.38 and 2.40 to ensure recorded data is more accurate.

**Important:** If using a larger card for recording, ensure the card has been Formatted correctly before use. Using an unformatted card could prevent the camera to record data or malfunction. See page 12 for How to Format SD cards.

# 3. How To Format SD Cards

**Important:** Ensure the PC player has been installed from the 4GB SD card to Desktop. Formatting SD cards will delete all data on the card. Data must be backed up onto another device if the data is to be used for future reference.

**Recommended – Format SD card at least once every 4 weeks for optimal performance.**

**3.1** Insert the card into a SD card slot in a PC/laptop.

**3.2** If the Auto play box automatically appears, left click Open Folder to View Files. If the automated box doesn't appear, left click Start Computer.

**3.3** Right click on the SD card slot.

**3.4** Left click on Format...

**3.5** Ensure the following settings are made:

**File System** is set to **FAT32**. If **FAT32** has not been Selected when formatted. The camera may be Damaged or prevented from recording data.

**Allocation Unit Size** is set to **32Kb**.

**Quick Format** box is **ticked**.

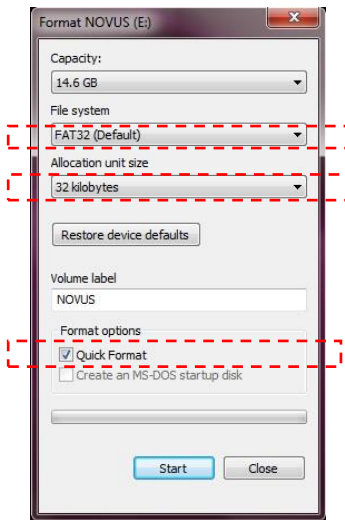
**3.6** Left click Start.

**3.7** Left click Yes to next prompt.

**3.8** Left click OK.

**3.9** Safely remove the card from slot.

Once formatting is complete you can insert the card back into the camera and continue as normal.



# 4. View Recordings Saved on SD Cards

## How to Watch Footage Saved on the SD Card

**Important:** The Novus PC Player software must be installed to Desktop to watch any recorded data. If the PC Player has not been installed, see page 8, Installing the PC Player.

4.1 Insert the SD card into the SD card slot.

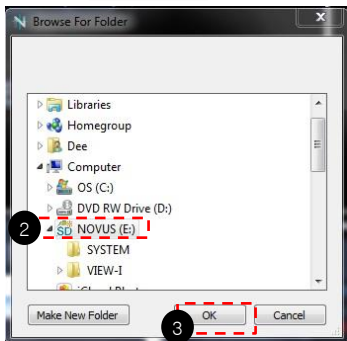
4.2 Double click on the Novus Icon on Desktop and enter the password required.

4.3 Left click on **Folder Open** button.

This is found about the white frame list box in the lower left quarter of your software window



Continued...



# 4. View Recordings Saved on SD Cards

Continued...

**4.4** A list of recordings will appear. To play the recordings the list must be highlighted. **Always tick the box** in the top left hand side of the list, next to “No”, to highlight the recordings.



**4.5** Left click **Chain Play** or double click on a desired clip to play. Emergency clips(EMG) will be listed at the top followed by Event clips(EVT) then Normal clips(INI).

**4.6** To get back to the list of recordings, left click on Search button above the list of recordings.

# 5. View Recordings Received by Email

## How to Watch Footage Saved on an Email or Single Files.

5.1 Left click on the attachment on the email and save the clip into a folder on the Desktop.

5.2 Open the PC player and click on the **Open File** button.



5.3 Locate the folder saved on Desktop.

5.4 Double click on the folder to open it and show the list of files.

5.5 Double click on the required clip and it will auto play in the Novus software window

To apply for a copy of the PC Player, please log onto [www.novuauto.com](http://www.novuauto.com) and create an account.

# 6. Send Recordings by Email

## How to Send an Incident by Email.

**Important:** Novus camera encrypts each recorded clip which fully protects the data. Encrypted data can only be replayed through the dedicated PC Player. Clips will not be able to be replayed through other players, such as, Windows Media Player, Real Player..

Contact Novus to request your incident to be transferred to allow instant reply via Windows Media Player. This will help pass all evidence as shown on the player to the authority and allow immediate access to the evidence.

Contact Novus on 03333 23 03 08 or email: [service@novusauto.com](mailto:service@novusauto.com)

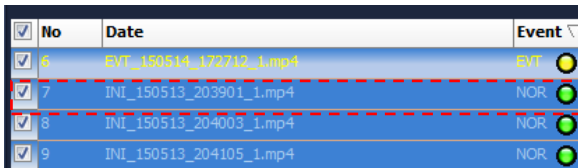
To send clips of an incident, follow the below steps.

6.1 Make note of the File Names of the clips required.

6.2 Close the PC Player.

6.3 Open a new email.

6.4 Add an attachment to the email.



<input checked="" type="checkbox"/>	No	Date	Event
<input checked="" type="checkbox"/>	6	EVT_150514_172712_1.mp4	EVT
<input checked="" type="checkbox"/>	7	INI_150513_203901_1.mp4	NOR
<input checked="" type="checkbox"/>	8	INI_150513_204003_1.mp4	NOR
<input checked="" type="checkbox"/>	9	INI_150513_204105_1.mp4	NOR

6.5 Double click on the SD Card Drive.

Continued...



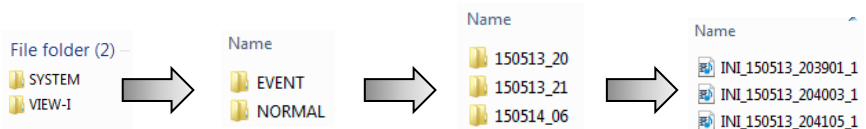
# 6. Send Recordings by Email

Continued...

**6.6** Locate the required clips in the folders by the File Names.

- Clips starting with EVT or EMG are saved in the Event folder.
- Clips starting with INI are saved in the Normal folder.
- First set of numbers represent the date the clips was recorded (American format) – 150513 = 2015/May/13<sup>th</sup>
- Second set of numbers represent the time the clips was recorded (24 hour Format) – 203901 = 8pm:39mins:01sec

E.g. The above clip can be located in the Normal folder, 150513\_20 folder.



**6.7** Double click on the individual clips to attach to the email.

**6.8** Click Send to send clips via email.

**Note:** Due to the size of memory of each clip, a limited amount of clips can be attached to each email. Too many clips sent on an email may not be retrieved or could cause the email program to malfunction.

# 7. Camera Features

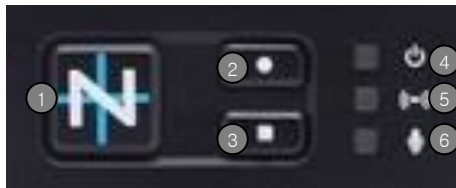
Function	Description
Constant Recording	<p><b>Records everything when camera is powered on.</b></p> <p>[NOTE] When the SD card is full of data, the camera deletes the oldest INI file to make room for new recordings. Therefore, if the user needs to keep the old recordings, the user must backup the recordings before they are automatically overwritten.</p>
Event Recording	<p><b>When the camera detects exceeded force , the camera will automatically save 10 seconds before and 15 seconds after the triggered event (adjustable via PC software).</b></p> <p>[NOTE] When the card reaches 80% capacity used on EVENT recordings, the camera will make a (beep-beep-beep) sounds to warn the user of limited space remaining.</p> <p>When the card reaches 100% capacity with EVENT recordings, the camera will make a constant (tee-lee-lee) sound and can no longer record to the card. The card should be removed and a back up made of any required data before being reformatted (see page 12)</p>
Audio Recording	<p><b>Supports audio recording with on/off settings via PC Player</b></p>
GPS Sensor	<p><b>Internal GPS records time/speed/route information via Google Map</b></p> <p>GPS information can only be checked through the Novus PC Player.</p> <p>[NOTE] Camera needs to be connected to satellites for GPS data to be recorded.</p>
G-Sensor	<p><b>Internal G-sensor records quick start/stop/curve information.</b></p> <p>This information can be checked with Novus PC Player .</p>

# 8. Camera Functions



#	Name	Description
1	<b>Power Feed</b>	DC 12/24v
2	<b>SD Lock</b>	Key lock
3	<b>SD Cart Slot</b>	SD card slot
4	<b>GPS</b>	Internal GPS Antenna
5	<b>Front Camera</b>	2 mega pixel CMOS lens
6	<b>Rear Camera</b>	Input for optional second camera
7	<b>Manual Recording</b>	User activated Event Recording
8	<b>Power Button</b>	Power On/Off
9	<b>Mic Button</b>	Mic On/Off
10	<b>LED's</b>	Status LED for Power status(red), GPS reception(blue), Mic status(amber) and Recording status

## 9. Camera Button & Lights



#	Name	Recording Mode
1	<b>Manual Recording Button</b>	Manually start Event recording if button is pressed, camera will make “tic-tic” sound and blue and orange LED will flash quickly. These clips will be saved as an Emergency file.
2	<b>Power Button</b>	Hold for 3 Seconds to power unit off. Press once to Power unit on.
3	<b>Mic Button</b>	Press once to turn microphone off, Press once to Turn microphone on
4	<b>Power LED</b>	Red LED, Displays Power On/Off Status
5	<b>GPS LED</b>	Blue LED, Displays steady blue when GPS data is recording. Flashing blue when GPS data is not recording.
6	<b>Mic LED</b>	Amber LED, Displays Mic On/Off Status

# 10. Software Features

Features	Description
Novus PC Player	<b>Software to view recordings.</b> View GPS data, generate reports can be done through the dedicated player.
Google Map Sync	<b>View driver's route via Google Map through the PC Player.</b> [NOTE] GPS needs to be connected to the satellites in order to sync data with Google Maps. Internet connection on the PC required to view Google map.
G-Sensor Graph	<b>View G-force impact data.</b>
ECO-Drive Report	<b>Driver's driving patterns can be checked and documented in reports.</b> Recorded data can give an overall score on how good or bad a driver is. Reports will coach drivers to develop safer driving habits [NOTE] Functions are limited for non-GPS data.
Event Report	<b>Creates reference report detailing the accident which may be helpful to police or insurance company's investigations.</b> [NOTE] Functions are limited for non-GPS data.

# 11. PC Requirements

## System Requirement

Novus software automatically encrypts recorded data. To view recorded data, the data must be replayed through the dedicated Novus PC player.

Item	Description
Operating System	Window XP, Windows Vista, Windows 7 & 8, (English version)
CPU	Pentium 4 / 1.8Ghz Processor or above
RAM	More than 512MB
Free HDD Space	More than 200MB
Display	More than 1024 x 768 pixels

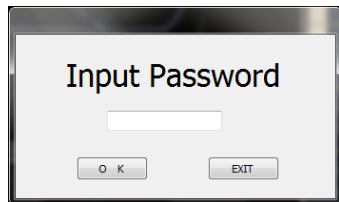
\* Check <http://www.novusauto.com> for latest Novus PC Player updates.

# 12. PC Player Password Settings

## Password Settings

In order to protect the recorded data being accessed by an unauthorised user, the NOVUS PC Player has a password protection function. To enter and change passwords, please follow the below.

**12.1** When entering the NOVUS HD SCE 1.8 Player for the first time, leave the entry blank and click OK. If you are running in Administrator Mode, input 4 zero's (0000)

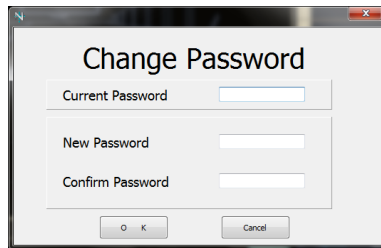


**12.2** To change your password, click on the Change Password button in the PC Player.



**12.3.** When new window appears, input Current / New / Confirm Password info and click "OK" button to change password.

**12.4** If the password has been forgotten, uninstall and reinstall the PC player.



# 13. Playback Screen

## PC Player Playback Screen
















#	Name	Description
1	Front Video Screen	Front video play screen of designated video file
2	Rear Video Screen	Interior/Second Camera screen of selected video file
3	File Information	Displays file name, time and date, longitude and latitude.
4	G-Sensor Graph	G-sensor data of video screen for user analysis
5	Google Map	Displays current position of the video on Goggle Maps (Internet connection required)
6	File List	List of recorded files.
7	Speedometer	Shows vehicle speed.
8	Search Engine	Search for specific clips with certain criteria



# 14. PC Player Button Functions

## Buttons Functions on PC Player Software

Button	Description	Button	Description
	Previous File		Open 1 file
	Rewind		Print Screen
	Play		Settings
	Pause		ECO-Drive Report
	Stop		Event Report
	Fast-forward	 Volume Control : Video volume control with mute function	
	Next File		

# 15. PC Player and Camera Settings

## Open /Change Player and Camera Settings

**Important:** Check/set the Time and Date Settings during initial install to ensure recorded data is accurate. Any changes made on the Settings in the software must be saved in the camera. Ensure the SD card is inserted into the camera after changes have been made and power the camera for at least 3 minutes.

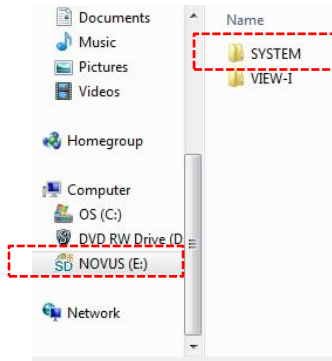
15.1 Open the Novus PC Player.

15.2 Left click on the Settings button, bottom right hand corner of player.

15.3 Double click on the SD card drive.

15.4 Double click on System folder.

15.5 Double click on user\_setup.cfg file, the Setting box will appear.



# 15. PC Player Settings – Express

## Express Settings

Adjust camera and PC Player settings.

**Important:** Any adjustments made must be saved on the SD card and camera.

Click “Apply” button save Settings to the card.

Re-insert SD Card into the camera to upload the changes

Setting

Express Setting Expert Setting

1 Video Quality

☐ Best ☐ High ☐ Normal ☒ Compact

2 G-Sensor Sensitivity

☐ Low ☒ Normal ☐ High ☐ User Set

3 Device Time(Default)

2013-02-28 15:32:27 ☒ yes ☐ no

4 Time Zone

(GMT) Western Europe Time, London, Lisbon, Casablanca

5 Buzzer Alert Setting

☒ on ☐ off

Mic Setting

☐ on ☒ off

6

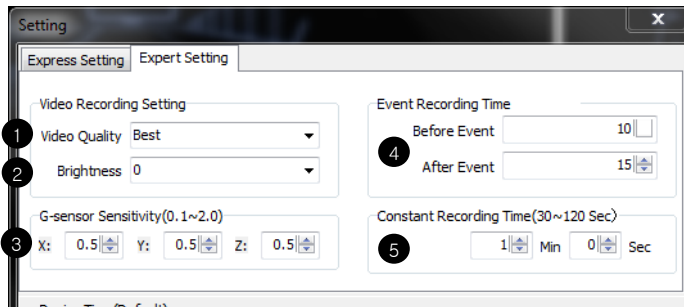
Default Apply Cancel

#	Name	Description
1	Video Quality	Higher quality settings will use more memory
2	G-Sensor Sensitivity	G-Sensor sensitivity select (Low = sensitive / High = Dull)
3	Device Time	Set Date and Time
4	Time Zone	Set location of user
5	Buzzer Alert Setting	Turn audio alert sounds Off/On
6	Mic Setting	Turn audio recording Off/On

# 15. PC Player Settings – Expert

## Expert Settings

Only use Expert setting if you are an advanced user.



Click “Apply” button and re-insert SD Card to the device to save the changes

#	Name	Description
1	Video Quality	Best: 2M@VGA 30fps / Good: 2M@VGA 25fps Normal: 2M@VGA 15fps / Compact: 2M@QVGA10fps
2	Brightness	(Dark)-4 ~ +4(Bright)
3	G-Sensor Sensitivity	0.1~2.0 (Low=sensitive / High=dull)
4	Event Recording Time	10 sec before and 5~20 sec after event trigger
5	Constant Recording Time	30sec~2min per clip

# 16. PC Player – Search List Screen

## Search and Play List Screen

The Search List screen is the main navigation screen. Upload data from SD cards, select files to view recordings.

SEARCH		INFORMATION	
SEARCH LIST		Folder Open	Chain Play
<input checked="" type="checkbox"/>	No	File Name	Event
<input checked="" type="checkbox"/>	1	EMG_130729_144909_1.mp4	EMG 
<input checked="" type="checkbox"/>	2	EVT_130729_144909_1.mp4	EVT 
<input checked="" type="checkbox"/>	3	EVT_130729_144955_1.mp4	EVT 
<input checked="" type="checkbox"/>	4	INI_120824_153251.mp4	NOR 
<input checked="" type="checkbox"/>	5	INI_120824_153859.mp4	NOR 
<input checked="" type="checkbox"/>	6	INI_120824_155749.mp4	NOR 

#	Name	Description
1	Folder Open	Open recorded clips on SD card
2	Chain Play	Play button for continual playing of checked listed files
3	File Name	File name consist of date/time of recordings <b>EMG,EVT,INI : Recording type</b> eg. EVT_130729_144909.mp4 <b>130729 : 29/07/13 (date)</b> <b>144909 : 14:49:09 (time)</b>
4	Event Type	Displays recording type

#	Name	Description
5	NOR	Constant recording files display as “NOR”
6	EVT	G–Sensor triggered recording files display as “EVT”
7	EMG	Manual button triggered recording files display as “EMG”

# 17. PC Player – Search Engine

## Create and Search Database

The in-built search engine can categorise the recorded data to allow users search specific criteria such as Speed, G-Sensor etc, saving time filtering through hours of data.

17.1 Import data from the SD card to the Search List screen.

17.2 Click on “Create DB”.

\*Database must be created before searching.

17.3 Set the search criteria and Click on the “SEARCH” button.

17.4 List of matched data will appear in Search List.

17.5 Click on “Chain Play” to play searched file or double click on desired clip.

The screenshot shows the PC Player Search Engine interface. It features a dark blue background with white text. At the top, there are four tabs: 'Event Type', 'All', 'Const', 'Event', and 'Manual'. Below these, there are three main sections: 'Speed', 'G-SENSOR', and 'Time'. The 'Speed' section has a 'More' button and a 'Mile' unit selector. The 'G-SENSOR' section has three input fields for X, Y, and Z values. The 'Time' section has 'START' and 'END' date pickers. At the bottom, there are three buttons: 'SEARCH', 'RESET', and 'Create DB'. A red dashed box highlights the bottom section containing these three buttons. Numbered callouts 1 through 4 point to specific elements: 1 points to the 'Event Type' tab, 2 points to the 'More' button, 3 points to the 'G-SENSOR' section, and 4 points to the 'Time' section.

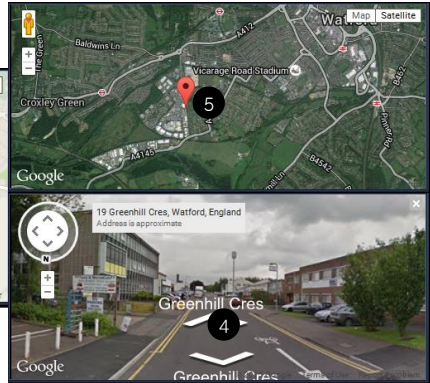
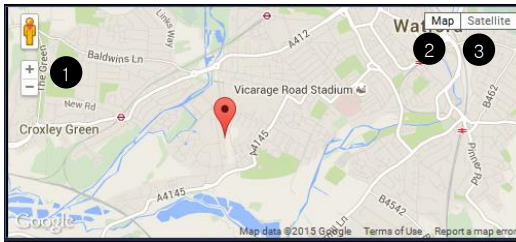
#	Name	Description
1	Event Type	Select recording type to filter videos with selected recording type
2	Speed	Input speed value to filter videos above selected speed value
3	G-Sensor	Input X/Y/Z G-sensor values to filter videos above selected G-sensor value
4	Time	Input time value to filter videos within time section

# 18. PC Player – Google Map

## Google Map Interface

The PC Player supports Google Map interface. User must have internet connection to view Google map data.

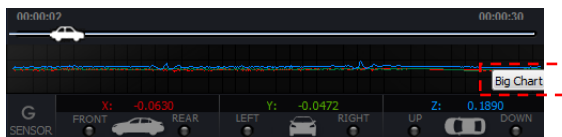
Number	Description
1	Adjust Map size: + : Zoom in – : Zoom out
2	View Mode: Map
3	View Mode: Satellite
4	View Mode: Street
5	Current Position



# 19. PC Player – Speed / G-Sensor

## Speed and G-Sensor Reports

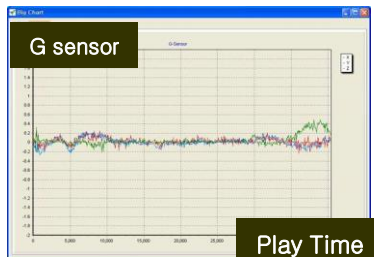
Novus PC Player can generate detailed reports of recorded speed and G-Force impact data. These reports can be used for analysing the driver's driving patterns.



19.1 Click on “Big Chart” button in the G sensor screen to display below screens.



Speed



G-Sensor

Axis	Description
X-Axis	Display Vehicle's X axis movement – Quick Start / Quick Stop
Y-Axis	Display Vehicle's Y axis movement – Quick Turns
Z-Axis	Display Vehicle's Z axis movement – Up/down movement



# 20. PC Player – Screen Capture

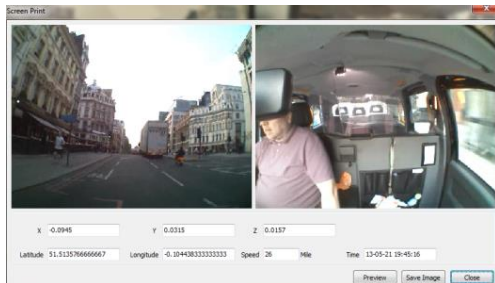
## Screen Capture Print/Save

This function allows users to take screenshots of a incident or e.g. a number plate. The data can be easily be emailed as a detailed report along with location and G-Force data

20.1 Click on **Screen Print** to capture the picture.



Single Lens View



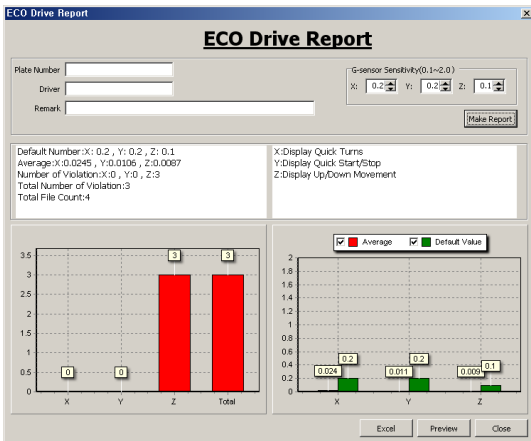
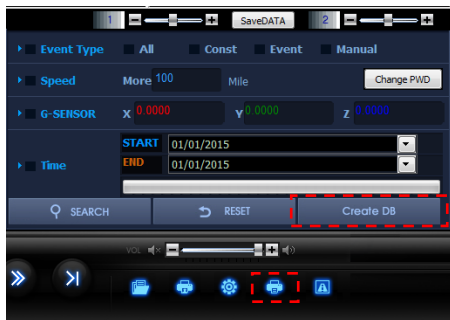
Two Lens (optional 2<sup>nd</sup> camera)

# 21. PC Player – ECO Driver Report

## ECO-Driver Report

This report can provide information on the drivers driving behavior and bad habits. It can advise on how good or bad a driver is by scoring the recorded data.

21.1 Import data from the SD card to the Search List screen.



21.2 Click on “Create DB”.

21.3 When database complete, click on **Data Print**.

21.4 Input basic user information and click on “**Make Report**” to generate the drivers report.

21.5 Click on “**Excel**” to create the report in Excel format.

# 22. PC Player – Event Report

## Create an Event Report

This function allow users to take 4 screenshots of the build up to the incident. The data can be easily be emailed as a detailed report along with location and G-Force data.

### 22.1 Click on “Event Report”



#### Event Report

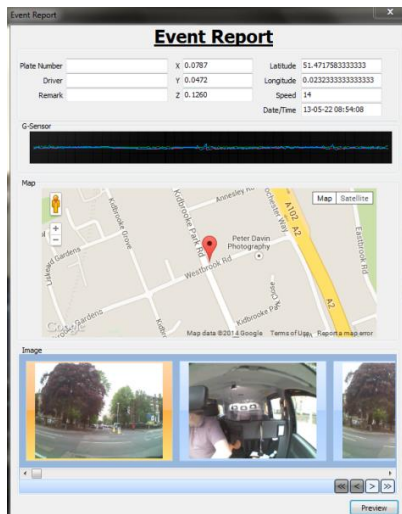
2014/01/25 02:20:24

Plate Number

Driver

Remark

X	0.0787	Latitude	51.4717583333333
Y	0.0472	Longitude	0.0232333333333333
Z	0.1260	Speed	14
		Date/Time	13-05-22 08:54:08



22.2 Click on the “Add” button to save 4 screenshots. Then click on the “Next” button.

22.3 Input basic information and click on “Preview” button to create the report.

# 23. PC Player – GPS Data Report

## GPS and G-Sensor Data Export

This function will export the recorded GPS and G-Sensor shock data into Excel format.

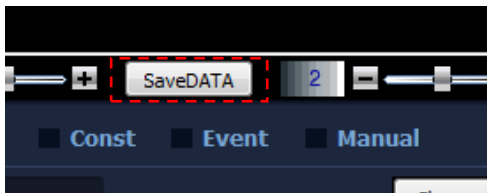
23.1 Import data from the SD card to the Search List screen.

(See pages 13 & 14, 4.3 onward)

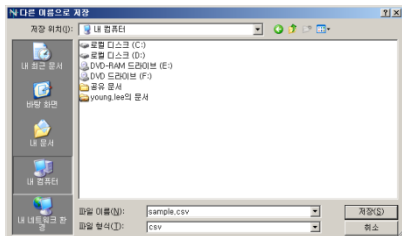
23.2 Click on “Create DB”.

23.3 Click on “Save Data”

23.4 Select location and save the CSV file.



	A	B	C	D	E	F	G	H	I	J	K
	Date	Time	database	gx	gy	gz	speed	latitude	NS_Len	longitude	EW_Len
1	21010	195549	Gsensor	0.0375	-0.0157	0.0375					
2	21010	195549	Gsensor	0.0375	0	0					
3	21010	195549	Gsensor	0.0375	-0.0157	0					
4	21010	195549	Gsensor	0.0375	-0.0157	0					
5	21010	195549	Gsensor	0.0157	-0.0157	0					
6	21010	195549	Gsensor	0.0157	-0.0157	0.0157					
7	21010	195549	Gsensor	0.0157	-0.0157	0					
8	21010	195549	Gsensor	0.0157	-0.0157	-0.0157					
9	21010	195549	Gsensor	0.0157	-0.0157	-0.0157					
10	21010	195549	Gsensor	0.0157	0	0					
11	21010	195549	Gsensor	0.0157	-0.0157	0.0157					
12	21010	195549	Gsensor	0.0157	0	0					
13	21010	195549	Gsensor	0.0375	0	0					
14	21010	195549	Gsensor	0.0157	0	0					
15	21010	195549	Gsensor	0.0375	-0.0157	0					
16	21010	195549	Gsensor	0.0157	0	0					
17	21010	195549	Gsensor	0.0157	-0.0157	0					
18	21010	195549	Gsensor	0.0157	-0.0157	0.0157					
19	21010	195549	Gsensor	0.0157	-0.0157	0					
20	21010	195549	GPS				No Data				
21	21010	195550	Gsensor	0.0472	-0.0157	0.0157					
22	21010	195550	Gsensor	0.0472	-0.0157	0.0157					
23	21010	195550	Gsensor	0.0157	-0.0157	0.0157					
24	21010	195550	Gsensor	0.0375	-0.0157	-0.0157					
25	21010	195550	Gsensor	0.0157	-0.0157	-0.0157					
26	21010	195550	Gsensor	0.0157	-0.0157	0.0157					
27	21010	195550	Gsensor	0.0472	-0.0157	-0.0157					
28	21010	195550	Gsensor	0.0157	-0.0157	-0.0157					
29	21010	195550	Gsensor	0.0375	-0.0157	0					





# 25. Buzzer/LED Alert Warnings

Warning	LED Alert	Buzzer Alert
Booting Status	Red LED : On Blue LED : Flash for apprx 10secs Orange LED : Flash for apprx 10secs	“beep, beep” sound
SD Card Insert Status	Red LED : On Blue LED : Constant Flashing Orange LED : Constant Flashing	If SD card is not inserted: Constant “Beep” every second
GPS Reception Status	Red LED : On Blue LED : Flashing = searching for GPS On = GPS connected Orange LED : operate according to Mic status	
Mic On/Off	Red LED : On Blue LED : On if GPS Connected Orange LED : On/off according to Mic status	
Constant Recording Status	Red LED : On Blue LED : On if GPS Connected Orange LED : Operate according to Mic status	
Event/Manual Recording Status	Red LED : On Blue LED : Flash for 15secs Orange LED : Flash for 15secs	Short “tic-tic”
Event/Manual Recording Memory Full Alert	Red LED : On Blue LED : On if GPS Connected Orange LED : Operate according to Mic status	80%: “Beep Beep Beep ~Beep Beep Beep” 100% : “Tee-lee-lee”
Power Down	Red LED : Off Blue LED : Off Orange LED : Off	“Beep~”

## 26. SD Card Recording Times

H = Hour / M = Minutes

QUALITY		Best (Default)	High	Normal	Compact
PIXELS		HD 1280x720	HD 1280x720	HD 1280x720	HD 1280x720
Frame Per Sec, Ext/Rear.		20fps/10fps	16.6fps/8.3fps	10fps/5fps	4.65fps/2.35fps
Memory Size	4GB	1H34M	1H49M	2H08M	5H54M
	8GB	3H10M	3H39M	4H16M	11H49M
	16GB	6H21M	7H18M	8H33M	23H38M
	32GB	12H43M	14H36M	17H07M	47H17M
	64GB	25H27M	29H12M	34H15M	94H35M

\* Based on an assumed 20% Event to 80% Standard recording ratio

Go to [www.novusauto.com](http://www.novusauto.com) for more details on recording times

# 27. Liability

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Please read the follow liability information:

**27.1** This product is offered for use on the provision that all guidelines, advice and recommendations are followed, and the device is used for its intended Purpose only.

**27.2** You may not modify, reproduce, create derivative works from, transfer or sell , any information, software, products or services without the express permission of the manufacturer.

**27.3** In no event shall the manufacturer be liable for any direct, indirect, punitive, incidental, special or consequential damages whatsoever, arising out of or connected with the use or misuse of this product or its accessories

**27.4** This product requires a certain level of maintenance to ensure optimal performance. The manufacturer limits any and all liability for loss or unrecorded data.

**27.5** This product is not guaranteed to record information on every incident...

**27.5.1** Minor incidents may not trigger the G-Force sensor, therefore it is the responsibility of the driver to use the Manual Record Button to ensure an Event Record is created.

**27.5.2** Loss of power during an Event Record will result in loss of footage. It is the drivers responsibility, where possible, to ensure that power remains to The camera throughout the duration of an Event Record.

**27.6** The manufacturer limits any and all liability to the exclusive remedies of product repair or replacement (at the manufacturer's discretion) to the fullest extent required by law.



# 28. Camera Precautions

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Please read the camera precaution information below:

**28.1 Do not open/fix/alter this device.** Any customer alterations will void the warranty.

**28.2 Do not use any accessories other than those provided with the product.** The use of any additional accessories will void the product warranty.

**28.3 Do not connect the device directly to car's battery.** Connecting the device directly to the car battery will void the product warranty.

**28.4 Use this product only under the recommended power guidelines.** Using this product with alternative power will void the product warranty and could result in a fire.

**28.5 Remove the plastic film and any substance from the lens.** Any obstruction may affect and degrade the quality of recording.

**28.6 Do not expose this product to extreme temperatures (high or low).** This product will be damaged if it is exposed outside recommended working temperature.

**28.7 Do not operate product while driving.** Only operate in safe environments.

Continued...

# 28. Camera Precautions

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Continued...

**28.8 Check the product regularly to ensure that the camera lens angle is properly adjusted.** Always check when replacing the camera into the bracket. After violent force is applied to the vehicle or product, the camera angle may be altered resulting in poor picture quality.

**28.9 Do not place the camera where its obstructs the drivers view of the road.**

**28.10 Don't not place the camera within the window wiper area.** Placing the camera inside the wiper area could void inspections and regulations.

**28.11 Do not spray automobile cleaning products directly on product.** Product will be damaged if directly exposed to cleaning products.

**28.12 Only install this product within the recommended installation area.** This could result in poor GPS reception. Vehicles with fully heated front window or with metal elements may prevent GPS connection to the camera. Therefore, the camera will record without GPS data.

**28.13 If the product is physically damaged during a fatal accidents, data may not be recorded.**

# 29. SD Card Precautions

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**IMPORTANT:** Format the SD card at least once every 2–4 weeks for optimal performance. (See page 12 for How to Format a SD Card)

**29.1 Check SD card's data regularly to ensure the camera is recording correctly.**

**29.2 Backup the data regularly if any data needs to be saved for future reference or as evidence.** Wanted data may get recorded over with new data if the data is not backed up. Data may be lost due to corruption caused by the SD card if not formatted as recommended.

**29.3 SD card should be replaced once it reaches the end of its product life .** Warranty of the SD card is 6 months. When used daily during long journeys, the card's writing speed decreases after 6 months. Using expired or unformatted cards may result in the camera to malfunction and the camera may not be able to record data.

**29.4 SD Card Class 10 Rating.** Class 10 SD cards are highly recommended for optimal performance and reliability. Using a lower class may prevent the camera recording data.

**29.5 Only use SD card from the manufacturer.** The camera may not function correctly if un-tested SD cards are used.

**29.6 Do not remove SD card during product operation or while power is on.** The camera or SD card could be damaged.

**29.7 Do not open/fix/modify SD card.** The camera could be damaged and the warranty does not cover such damage.

# 30. Trouble Shooting

Problem	Solution
<b>Camera has No Power</b>	<ul style="list-style-type: none"> <li>– Check the power cable connection to the camera.</li> <li>– Check the power cable fuse.</li> <li>– Check the power cable connection to vehicle power source.</li> <li>– If all power connections are correct then remove SD Card, re-insert and turn the ignition on.</li> <li>– If all the above solutions fail to correct the problem, please contact your dealer.</li> </ul>
<b>“Beep ~Beep” sound does not stop</b>	<ul style="list-style-type: none"> <li>– Check the SD card is correctly inserted.</li> <li>– Check data on the SD card. Event files folder is full. Back up any data required, format the SD card and continue to record.</li> </ul> <p>See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kb)</p> <ul style="list-style-type: none"> <li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li> <li>– If all the above solutions fail to correct the problem, please contact your dealer.</li> </ul>
<b>LED lights keeps Flashing</b>	<ul style="list-style-type: none"> <li>– Blue LED only – check vehicle position is not affecting GPS connection.</li> <li>– LED lights may flash if there is a problem with the SD Card. Save any Data required, format the SD card and. See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kb)</li> <li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li> <li>– If the above solutions fail to correct the problem, contact your dealer.</li> </ul>

# 30. Trouble Shooting

Problem	Solution
<b>Recorded clips do not play correctly</b>	<ul style="list-style-type: none"><li>– Check the correct and latest PC Player version is being used.</li><li>– Open a single clip by File Open button instead of Folder Open button.</li><li>– If videos are too dark, please raise the brightness in the setting configuration</li><li>– Back up any data required, format the SD card and continue to record. See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kib)</li><li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li><li>– If all the above solutions fail to correct the problem, please contact your dealer.</li></ul>
<b>Recorded clips have no audio</b>	<ul style="list-style-type: none"><li>– Verify that the mic switch is turned on; orange LED should be lit.</li><li>– Check PC speakers are working and turned on.</li><li>– Back up any data required, format the SD card and continue to record. See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kb)</li><li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li><li>– If all the above solutions fail to correct the problem, please contact your dealer.</li></ul>

## 30. Trouble Shooting

Problem	Solution
Event Recording doesn't function correctly	<ul style="list-style-type: none"><li>– Check event recording settings in the Novus PC Player setting menu. Sensitivity might be too low. Event recordings will not be triggered by small or minor impact. Press Manual button to trigger a Event recording.</li><li>– Back up any data required, format the SD card and continue to record. See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kb)</li><li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li><li>– If all the above solutions fail to correct the problem, please contact your dealer.</li></ul>
GPS connection doesn't function correctly	<ul style="list-style-type: none"><li>– Check initial GPS installation has been completed inside the vehicle correctly accordingly to the manual. (See page 10 for more info)</li><li>– Check/remove all possible metallic parts from the camera.</li><li>– Check for heat elements, small metal zig zags lines throughout the front windscreen. HD model required for GPS connection.</li><li>– Back up any data required, format the SD card and continue to record. See page 12 for more info. (File System: FAT32, Allocation Size: 32 Kb)</li><li>– Try a new SD card as current card may have reached end of life. Contact your dealer. Life span: approx 6 months(varies on frequency usage of SD card) New cards must be formatted before use.</li><li>– If all the above solutions fail to correct the problem, please contact your dealer.</li></ul>

See [www.novusauto.com](http://www.novusauto.com) for more information

# 31. Specifications

List	Description
Camera	2M Pixel CMOS Image Sensor
View-Angle	Front View: 120° view
GPS	Internal GPS
G-Sensor	Internal 3G Sensor (X, Y & Z)
Video	Forward: MPEG4 – 2M Pixel 30fps at 1280x720 (HD) resolution
Audio	Internal Mic (ON/OFF)
Storage	SD Card (Max 64GB, Class 10 only)
PC Viewer	Novus Windows PC Player (Win XP,Vista,7,8)
Firmware	Update via SD Card
Voltage	12V~24V
Consumption	230mA @ 12v, 300mA with second camera
Backup	Internal Super Cap – 10 second failsafe
Temp	Working Temperature -20°C ~ 70°C
Size	52(W) x 94(H) x 18(D)mm
Weight	63g

Please go to [www.novusauto.com](http://www.novusauto.com) for further information

## 32. Accreditations

List	Description
Certifications	<p>KCC / FCC / CE / RoHS</p> <p>SSL Ruby/Silver, Ruby 100 &amp; Silver 100T</p> <p>Transport For London (TFL), Fleet Operator Recognition Scheme (FORS), Freight Transport Association (FTA), VOSA compliant.</p> <p>See Novus website for more accreditations and approvals.</p> <p><a href="http://www.novusauto.com">www.novusauto.com</a></p>



# 33. Warranty

Thank you for purchasing Novus product.

Product	VIEW-i		
Model			
Name		Serial Number	
Phone		Email	
Address			
Purchase Date		Dealer	

## Guarantee

Attention: Novus will not be liable in any way in respect of:

1. The failure by the user of the device to drive safely and in accordance with all road traffic laws and regulations.
2. The failure by the user to maintain and level of maintenance of the camera or SD card.
3. Warranty: one year
4. Life time of SD Card: 6 months.

## 32. Warranty

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ALL WARRANTIES, CONDITIONS AND OTHER TERMS IMPLIED BY STATUTE OR COMMON LAW (SAVE FOR CONDITIONS IMPLIED BY SECTION 12 OF THE SALE OF GOODS ACT 1979) ARE TO THE FULLEST EXTENT PERMITTED BY LAW EXCLUDED FROM ANY CONTRACT BETWEEN US, PROVIDED THAT NOTHING EXCLUDES OR LIMITS OUR LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY OUR NEGLIGENCE OR FRAUDULENT MISREPRESENTATION.

NOVUS WILL NOT BE HELD LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE (WHETHER FOR LOSS OF BUSINESS OR OTHERWISE) COSTS, EXPENSES OR OTHER CLAIMS, WHICH ARISE OUT OF OR IN CONNECTION WITH THE USE OF THE DEVICE.

Screens and pictures may be different in product use



[www.novusauto.com](http://www.novusauto.com)